

PAMAMA

BY WM.E.W. YERBY

ENTRANCE TO COLON

and expectations of the great engineer, and

carrying sorrow and want to the homes of

thousands upon thousands of French people

who had contributed their little all toward

forwarding the great enterprise. The nation

was brought to the very verge of revolution.

Judicial proceedings were instituted, and trials

were had, extending over a period of five

years. There was disclosed to the horrified

world such an orgy of corruption as history

had never before recorded. A hundred French

senators and deputies were accused of having

taken bribes, and the police department was

shock-and went down to his grave in 1894-

but his fame will remain immortal despite

interests and belongings of the French com-

pany on the Isthmus of Panama, paying there

for the sum of \$40,000,000-the assets consist

kinds, many thousand houses, railroads, land;

and also paid the Republic of Panama \$10,-

000,000 for the Canal Zone-a strip of land in

said Republic of Panama ten miles wide and

practically 50 miles long-extending from Co-

lon on the Atlantic side to Panama City on

mile strip the canal is being constructed. At

present there is an army of nearly 40,000 men

engaged in the gigantic undertaking of build-

ing this great water highway from ocean to

ma in 1904 to begin work, but they found the

country infested with diseases of the most

fatal kinds, and the year 1904 was practically

spent in improving health conditions. This

work has been under the supervision of Col.

W. C. Gorgas, and so effective have been the

methods pursued by him and his able assist-

suts in the Canal Zone of the Isthmus of

Panama that the health conditions of that

tropical country are about as good today as

States is not digging a "big ditch" across the

isthmus of Panama. When the canal is fin-

ished and ships are steaming across Panama

from the Atlantic to the Pacific, or vice versa,

the waters of the two oceans will still be at

least forty miles apart. They will never meet

at all. A sea-level canal, which would have

allowed the waters of the Atlantic and the Pacific to come together, is not being dug; but

an 85-foot lock canal is being constructed. As

to the relative merits of the sea-level and the

lock canal it is not within the province of this

Contrary to the general belief, the United

those of the southern states of America.

The first party of Americans went to Pana-

Pacific. Through the center of this ten

ing of valuable surveys, implements of all

only 16 years ago-a broken-hearted old man-

Count de Lesseps never recovered from the

In 1903 the United States purchased the

under the same charge.

the sad ending of his career.

HEN one looks upon the gigantic work that is in progress on the Isthmus of Panama and beholds the hills and the mountains giving way before the onward march of modern machinerysees steam, electricity, air and water all harnessed and made to do the bidding of man, he can but stand in awe and ask the question: What is the propelling power back of this great undertaking?

the question comes to him in redoubled force as he remembers that the spot on which all this great work is in progress was only recently regarded as the death-hole of the world-but now, when he beholds a land freed from the fearful ravages of the discases that had for centuries taken their toll of human life by the tens of thousands, he is constrained to ask again: What has wrought this wonderful change?

And the answer comes back to him from far down the rugged road that is filled with the fumes of the midnight oil that has been burned by students and men of science of past and present times: O, fellow-toiler, over and above and around and directing this great enterprise, upon which the eyes of the world are centered today, is the irresistible power of well-trained, cultured intellect.

It is remarkable the number of people one finds who are of the opinion that the idea of a canal across the Isthmus of Panama is some thing of recent origin, when the fact is, it is

NAULING OFF EXCAVATIONS FROM CULEBRA CUI

a matter that has engaged the attention of the

civilized world for nearly five hundred years.

Many unsuccessful attempts have been made

to accomplish the object in the past, and it

is good to realize that the dreams and designs

of the Spanish adventurers of the fifteenth

century are about to be brought to pass by

American engineers of the twentieth century.

Spain, Portugal, England and France have

each in turn made a failure in their attempts

highway from Europe to Asia, westward, by

way of the Atlantic. It was such a highway

he sought, and not the new world, which he

really found. He landed on the Isthmus of

Panama, near the present site of Colon, in the

year 1502, but it was a Spanish engineer

named Saavedrn, one of Balboa's followers,

who first advocated the construction of a

canal across Panama. This was in 1517, and

after studying the question for a dozen years,

he submitted his plans to Charles V., king of

Spain. Surveys of the isthmus were made,

but the work of cutting a canal was reported

to be impracticable. After the death of

Charles V. his successor, Philip II., in 1657,

sent an engineer to survey the Nicaraguan

route, who likewise made an adverse report.

The question was then abandoned for 200

years, after which time it was again opened,

by Count Ferdinand de Lesseps, who had

gained both fame and fortune by the success-

ful completion of the Suez canal, took up the

matter of constructing the Panama canal, and

went vigorously to work to connect the two

oceans. The great engineer thought he had

really an easier undertaking before him than

plishing-that is, the cutting of the Suez ca-

nal-but he was vastly mistaken. As work

progressed on the canal with seeming suc-

cess, glowing reports were wafted back to

France of what was being done, and the fame

of de Lesseps rose to the point of hero wor-

ship. In 1884 he was elected to the French

academy, and was saluted by Gambetts as

"the Grand Old Frenchman." In 1885 he was

seated among the Immortals-Victor Hugo,

the great French novelist, being his sponsor,

and Renan, that other brilliant French writer,

all this fantastic show, and in a few more

years the crisis came. The expenditure of

money that had been contributed mostly by

the poorer people of France was something

\$800,000,000 in eight years; and then the crash

came, burying beneath the wreck the hopes

-the amount being placed as high as

But the dark clouds were gathering behind

delivered the valedictory.

had recently been successful in accom-

in the year 1880 the French people, headed

and has been before the public ever since.

Columbus was the first to propose a water

to pierce the Isthmus with a canal.

have covered the sides of the excavation with solid gold. The cut through these moustains is known as Culebra cut, and is nine miles in length-through solid rock. The cut begins at Bas Obispo and ends at Pedro Miguel locks.

comes of the vast quantities of dirt, rock, etc., that are taken from the canal? It is loaded on trains by means of the steam showels and hauled off-a portion being placed on Gatun dam, a portion is taken to the Atlantic and a portion to the Pacific oceans and placed on the great breakwaters that are building there, and yet other trains are busily engaged in hauling the excavations to the railroad tracks that will skirt the northern edge of the canal, and which will have a solid rock bed the entire distance. They find use for every particle of it. Getting rid of these excavations has caused the Canal Zone to become the busiest railroad center in the world. It is said that 900 trains pass a given point near the town of Culebra in a day, hauling out the rock from the cut.

The United States is constructing a lock

CULEBRA CUT - SHOWING GOLD HILL

The question is often asked, What be-

canal, as before stated. These locks are in pairs, each having a width of 110 feet and a length of 1,000 feet. Each lock consists of a chamber, with walls of concrete, and with water-tight gates at the ends. The level of water is to be regulated through openings in the bottom by the operation of valves in the side and center walls, which will permit the water to flow into and out of the locks by gravity. It is estimated that it will require eight minutes to fill one of them. The locks are the largest that have ever been designed in the history of the world. The gates con-

sist of two leaves and are massive steel struc-

great work, says will be some time during the

year 1913-here is the manner in which a ves

sel from the Atlantic side will get to the Pacific:

It will enter the sea-level channel at Colon and

go a distance of seven miles to the foot of Ga-

tun locks; there it will be lifted by means of

these locks a height of 85 feet above the sea

level to the surface of Gatun lake: the gates

of the lock will be opened and it will steam

out on this lake and go a distance of 23 miles

to the beginning of the great Culebra cut, and

carefully proceeding through this cut a dis-

tance of nine miles, it will check up at Pedro

Miguel locks, where it will enter the lock and

be lowered a distance of 28 1-3 feet to the level

of Miraflores lake, and then it will steam a

distance of three miles across this lake to

Miraflores locks, where it will be lowered by

two flights a distance of 56 2-3 feet to sea

level; and then it will enter the Pacific chan-

nel of the canal and go a distance of eight

miles out to deep water of the ocean. It will

require from ten to twelve hours for a vessel

to make the passage from one ocean to the

other-thus saving many thousands of miles

of travel, and many days of time in a journey

to any of the ports on the Pacific side of

that the cost of the canal will not be over

\$375,000,000; and in this amount is included

the purchase of the French company's be-

longsugs-\$40,000,000-and the \$10,000,000 paid

for the Canal Zone, and also the cost of the

sanitary department, which of course has been

cost of the canal means-\$375,000,000-and put

it so the mind can in some measure grasp the

figures, we make the following statement:

There are in the world nine principal canals

to wit: The Suez, the Kiel, the Manchester,

stadt and the Erie-Ontario canal. The total

cost of all nine of these canals was \$264,000 -

Panama canal alone will cost at the lowest estimate. But even if this amount is doubled

the United States will complete it. The pride

other countries have done that have gone be

Wide World Magazine.

and reputation of the nation are at stake, and she cannot afford to make a failure as all the

the United States Ste. Marie, the Canadian

Marle, the Amsterdam, Corinth, Cron-

which is less by \$111,000,000 than the

In order to get some idea of what the

Colonel Goethals states most positively

the Americas and also to the Orient.

considerable amount.

PEDRO MIGUEL LOCKS

nearly \$6,000,000.

The 85-foot lock canal which is being con-

structed consists of a sea-level entrance chan-

nel 7 miles long, 500 feet wide and 41 feet

deep on the Atlantic side to the foot of Gatum

(pronounced "Gatoon") locks. On the Pacific

side there is a corresponding sea-level chan-

nel to Miraflores locks, about 8 miles long,

At Gatun the 85-foot lake level is obtained

by a great dam about a mile and a half long,

and nearly half a mile thick at the bottom of

base. The dam rests on impermeable material

of sufficient supporting power, and fills the

openings between the hills at Gatun, through

river flows to the sea. This river crosses the

channel of the canal no less than fifteen times

in its serpentine course and is one of the

most turbulent streams known during high

water, though it looks peaceful enough during

the dry season. It was one of the great ob-

structions to the possibility of digging a sea-

level canal, but this enemy has been converted

into a friend, and will be made to supply the

greater portion of the water for filling the

The great Gatun dam-upon the successful

completion of which depends the success of

the canal-consists of a water-tight center or

core composed of clay and sand mixed in

proper proportions. These materials were

adopted after consultation with the best ex-

perts in the world, who came to the conclusion

that clay and sand were the most impervious

materials that could be used. This material,

after being properly mixed, is deposited by

draulically-that is, by being pumped in by

dredges. This center core is confined by a

rock wall on each side, the rock so used

being taken from Culebra cut. At the bot-

tom this impermeable core of clay and sand

has a width of about 860 feet, and gradually

tapers upward until a minimum thickness of

400 feet will be had at the water level of the

lake. The dam will rise to a height of 115

feet, or a distance of 30 feet above the level

of the lake. The artificial lake-which will

be known as Lake Gatun-will cover an area

of 164 square miles, or over 100,000 acres. The

entire navy of the United States can find safe

way of the engineers for the past 500 years

in constructing a canal across Panama has

been the mountain range known as the Cor-

was here that the French people wasted and

squandered such a great amount of money

that the picture shown above is called "Gold

hill"-it being asserted that they spent enough

in their endeavor to cut through the moun-

tain at this point that the money used would

dilleras-the backbone of the continent.

The greatest obstacle that has stood in the

great artificial lake.

anchorage therein.

the Chagres (pronounced "Shaggers")

500 feet wide and 45 feet deep.



Speaker Cannon Saturday after oon made the unique ruling that in so far as the national house of representatives is concerned, today is vesterday. In other words, he sus tained the contention that Friday's session was still in progress. Immediately after this announce

ment Representative Mans of Illinois, who fillbustered all day Friday against the passage of the omnibus war claims bill, resumed his tactics and began to demand roll calls en every proposition put before the house

Routine of Daily Proceedings. The chief feature of the senate ession Monday was a speech by Senator Bailed in support of Mr. Lorimer. When adjournment for the day was taken announcement was made that Mr. Bailey would continue Tuesday, Senator Curtis preceded Senator Dailey, speaking against the resolution for the election of senators by direct vote of the people.

The Lorimer case and the popular election of senators divided the day in the senate Tuesday, although time was found for other business as well. Senator Bailey concluded his speech in defense of Lorimer. Then an effort to fix a day for a vote on the resolution for the Illinoisan's removal failed. Senator Norris Brown spoke in advocacy of the election of senators by direct vote of the people. A bill was passed providing for a children's bureau in the department of commerce and labor.

The McCall bill providing for reciprocity between the United States and Canada was passed at a night session of the house by a vote of 221 to 92. Debate on the measure consumed the entire day. Among those who spoke at length for the measure were Underwood of Alabama and Clark of Missouri, while its chief opponents were Dalzell of Pennsylvania and Fordney of Michigan.

The conservation bill providing for the purchase of forest reserves in the eastern states was passed in the senate Wednesday by a vote of 57 to 9. Several speeches were made before the vote by Senators Brandegee, Newlands and Simmons for, and Burton and Heyburn against the measure. The McCall bill, carrying the Canadian reciprocity agreement, was received and referred to committee The Lorimer case came up again, Senator Beveridge failing to obtain unanimous consent for a vote on it next Tuesday.

Practically the entire day in the house was devoted to consideration of the Moon bill for codification of the judiciary laws. It was so amended as to increase the salaries of the justices of the supreme court of the United States.

The resolution looking to a constiutional amendment to provide for election of members of the United States senate by direct vote of the people occupied most of the time of that body Thursday. But one set speech upon the subject was made, however, that being by Senator Borah in its advocacy. Senator Heyburn made a speech of protest against a news article in a local paper, which tures 7 feet thick, 65 feet long and from 47 asserted that the president held the to 82 feet high. Eighty-four leaves will be 'whip hand" over the senate and required for the entire canal, and their total might force a vote on the Canadian weight will be 86,000,000 pounds, and will cost trade agreement by a threat of an extra session of congress. Mr. Hey-When the canal is completed—which Colonel burn thought the dignity of the gen-George W. Goethals, who is in charge of the

ate had been assailed. In the house the day was given to consideration of the legislative, executive and judicial, the army and the payal appropriation bills, general de bate on the last carrying the house far into the night.

Election of United States senators by direct vote of the people was under consideration throughout Friday's session of the senate. Speeches were made by Senators Rayner, Carter and Heyburn, the first opposing and the others favoring the Sutherland amendment to the resolution. This amendment provides for congressional control of senatorial elections in the states

The house had a fillbuster on its hands, determined opposition appearing to the omnibus claims bill being taken up. That body held a night

Initiative Passes in California. Sacramento, California - Senator Gates' resolution for the submission to the people of a constitutional amendment providing for the initiative and referendum passed the assembly by unanimous vote.

Kills Brother in Fight.

Webb City, Mo .- Ike Stidhum killed his brother William here in a fight with a knife and gun over a woman.

14,618,761 Are Catholics. Milwaukee, Wis.-The Roman Catholics in the United States, according to the Wiltzius official directory for 1911, number 14,618,761. This does not include the Philippines, Porte Rico or the Hawalian islands.

Walsh Pardon is Considered. Washington, D. C .- Attorney Gener al Wickersham is working on John R. Walsh's application for pardon and probably will be ready to send his ecommendations to President Waft within the next few days,

Naval Officer Kills Himself. Newport, R. I.—From authoritative sources it is learned that the death of Commander Frank Marble, United States navy, of the Naval War college staff, was due to suicide and not to apoplexy.

Cremated in Coffin He Made. Cincinnati, O .- in a casket made of cherry wood that had been hown by himself more than 50 years ago, the body of William N. Whitely, million manufacturer of reape Springfield, O., was cremated here.



By Lydia E. Pinkham's Vegetable Compound



Consider This Advice. No woman should submit to a surgical operation, which may mean death, until she has given Lydia E. Pinkham's Vegetable Compound a fair trial.

This famous medicine, made only from roots and herbs, has for thirty years proved to be the most valuable tonic and invigorator of the female organism. Women residing in almost every city and town in the United States bear willing testimony to the wonderful virtue of Lydis E. Pinkham's Vegetable Compound.

Mrs. Pinkham, at Lynn, Mass., invites all sick women to write her for advice. Her advice is free, confidential, and always helpful.

COMING EVENT



your father He-Do you think would offer me personal violence if I were to ask him for you? She-I think he will if you don't pretty soon!

Probably Got Off.

Apropos of certain unfounded charges of drunkenness among the naval cadets at Annapolis, Admiral Dewey, at a dinner in Washington,

told a story about a young sailor. "The sailor, after a long voyage," he said, "went ashore in the tropics, and, it being a hot day, he drank, in certain tropical bars, too much beer "As the sailor lurched under his

heavy load along a palm-bordered avenue, his captain hailed him indignantly. "'Look here,' the captain said, 'suppose you were my commander, and you met me in such a condition as

you're in now, what would you do to "'Why, sir,' said the sailor, 'I would

n't condescend to take no notice of you at all, sir."

A Dry Wash. Representative Livingston of Georgla, who, disgusted at the bath-tub de bate in the house recently, proposed that a little money might be made by renting the bath tubs out, said recently, apropos of this subject:

'We are now a good deal like Bill Spriggins on a zero morning. "Bill's valet entered his bedroom

one January morning and said with a "'Will you take your bath hot or

cold sir? "Thank you,' said Bill; 'I'll take it

for granted." Scott's Rebecca in "Ivanhoe."

The character of Rebecca, in Scott's "Ivanhoe." was taken from a beautiful Jewess, Miss Rebecca Gratz of Philadelphia. Her steadfastness to Judaism, when related by Washington Irving to Scott, won his admiration and caused the creation of one of his finest characters.

True pleasure consists in clear thoughts, sedate affections, sweet reflections; a mind even and stayed, and true to itself.-Hopkins.

Women **Appreciate**

Step-savers and Time-savers.

Post **Toasties**

is fully cooked, ready to serve direct from the package with cream or milk, and is a deliciously good part of any meal.

A trial package usually establishes it as a favorite breakfast cereal.

"The Memory Lingers"

POSTUM CEREAL CO., Lad.,

Religion of Gwari Pagans

These People Appear to Live in Dread the Spirits of Their Ancestors.

have an idea of a supreme being, but do not worship him any way that I have been able to discover. Probably this idea is just their paganized ably this idea is just their paganized conception of the Mohammedan Allah culty to get any really satisfactory idea of the religion of pagan tribes. During a stay of some three years amongst the Gwaris, however, I was able to form some notion of what was at the back of their minds. They wiew they are careful to supply them

hute are built over them, wonderfully man. decorated with light colors. In other

at frequent intervals with food and its proximity to my abode it has fall- Gwari village, I saw a man kneeling drink which are deposited near their on into disuse, as the pagans become graves. These tombs are, in the case somewhat chary of performing their of chiefs, in the royal compound, and mysterious rites so near the white

Some ceparted spirits are supcases the graves may be dug in some to inhabit the large trees which are

in front of one of these small spirit huts with a pot of some drink in his hand, apparently expostulating with the spirit-possibly because it had treated him badly-and occasionally pouring some of the contents of the pot upon the outside wall of the hut.-

Value of Borax in Milk.

A pinch of borax stirred into fresh milk will keep it for some time, and also prevent the cream turning sour.